

**1.4.1 Carbon Dioxide Emissions for U.S. Buildings, by Year (Million Metric Tons) (1)**

	Buildings			Growth Rate 2008-Year	U.S.		Buildings % of Total U.S.	Buildings % of Total Global
	Site Fossil	Electricity	Total		Total	Growth Rate 2008-Year		
1980	630	933	1562	-	4723	-	33%	8.5%
1981	586	945	1531	-	4601	-	33%	8.4%
1982	585	938	1523	-	4357	-	35%	8.4%
1983	566	959	1524	-	4332	-	35%	8.4%
1984	584	990	1575	-	4561	-	35%	8.2%
1985	569	1026	1595	-	4559	-	35%	8.2%
1986	558	1033	1592	-	4564	-	35%	8.0%
1987	566	1077	1642	-	4714	-	35%	8.0%
1988	597	1134	1731	-	4939	-	35%	8.2%
1989	601	1149	1749	-	4983	-	35%	8.1%
1990	566	1179	1745	-	5021	-	35%	8.1%
1991	574	1188	1762	-	4976	-	35%	8.2%
1992	581	1208	1789	-	5095	-	35%	8.4%
1993	599	1264	1864	-	5186	-	36%	8.6%
1994	594	1280	1874	-	5268	-	36%	8.6%
1995	599	1312	1912	-	5333	-	36%	8.6%
1996	627	1387	2015	-	5532	-	36%	8.9%
1997	592	1434	2026	-	5582	-	36%	8.8%
1998	562	1484	2046	-	5618	-	36%	8.9%
1999	596	1534	2130	-	5726	-	37%	9.1%
2000	608	1592	2199	-	5857	-	38%	9.2%
2001	596	1589	2185	-	5744	-	38%	9.1%
2002	606	1618	2224	-	5798	-	38%	9.0%
2003	620	1648	2268	-	5856	-	39%	8.8%
2004	598	1684	2281	-	5969	-	38%	8.3%
2005	570	1720	2289	-	5950	-	38%	8.1%
2006	539	1718	2257	-	5929	-	38%	7.8%
2007	562	1748	2310	-	5991	-	39%	7.8%
<b>2008 (3)</b>	<b>572</b>	<b>1715</b>	<b>2287</b>	<b>-</b>	<b>5820</b>	<b>-</b>	<b>39%</b>	<b>7.5%</b>
2009	557	1617	2174	-5.0%	5425	-6.8%	40%	7.2%
2010	553	1719	2272	-0.3%	5639	-1.6%	40%	7.4%
2011	559	1623	2182	-1.6%	5591	-1.3%	39%	7.1%
2012	559	1599	2157	-1.5%	5622	-0.9%	38%	7.0%
2013	559	1561	2120	-1.5%	5656	-0.6%	37%	6.8%
2014	561	1559	2120	-1.3%	5657	-0.5%	37%	6.8%
2015	562	1552	2114	-1.1%	5679	-0.3%	37%	6.7%
2016	564	1567	2130	-0.9%	5703	-0.3%	37%	6.7%
2017	563	1573	2136	-0.8%	5712	-0.2%	37%	6.6%
2018	564	1589	2152	-0.6%	5727	-0.2%	38%	6.5%
2019	564	1608	2172	-0.5%	5746	-0.1%	38%	6.5%
2020	565	1630	2195	-0.3%	5774	-0.1%	38%	6.5%
2021	564	1654	2218	-0.2%	5814	0.0%	38%	6.5%
2022	564	1682	2246	-0.1%	5835	0.0%	38%	6.4%
2023	564	1710	2274	0.0%	5863	0.0%	39%	6.4%
2024	565	1742	2307	0.1%	5898	0.1%	39%	6.4%
2025	564	1766	2330	0.1%	5931	0.1%	39%	6.4%
2026	565	1789	2354	0.2%	5963	0.1%	39%	6.4%
2027	565	1814	2379	0.2%	5993	0.2%	40%	6.3%
2028	566	1837	2403	0.2%	6031	0.2%	40%	6.3%
2029	566	1860	2426	0.3%	6063	0.2%	40%	6.3%
2030	567	1883	2450	0.3%	6110	0.2%	40%	6.2%
2031	567	1904	2471	0.3%	6153	0.2%	40%	6.2%
2032	568	1927	2495	0.4%	6199	0.3%	40%	6.2%
2033	568	1946	2513	0.4%	6235	0.3%	40%	6.1%
2034	568	1964	2532	0.4%	6273	0.3%	40%	6.1%
2035	569	1986	2555	0.4%	6315	0.3%	40%	6.0%

Note(s):	1) Excludes emissions of buildings-related energy consumption in the industrial sector. Emissions assume complete combustion from energy consumption and exclude energy production activities such as gas flaring, coal mining, and cement production. 2) Carbon emissions calculated from EIA, Assumptions to the AEO 2010 and differs from EIA, AEO 2011 Early Release, Table A18. Buildings sector total varies by 0.2% from EIA, AEO 2011 Early Release. 3) U.S. buildings emissions approximately equal the combined carbon emissions of Russia and the
Source(s):	EIA, Emissions of Greenhouse Gases in the U.S. 2008, Dec. 2009, Tables 7-10 for 1980-2007 greenhouse gas emissions; EIA, Assumptions to the Annual Energy Outlook 2010, May 2010, Table 1.2, p. 12 for carbon coefficients; EIA, Annual Energy Outlook 2011 Early Release, Dec. 2010, Summary Reference Case Tables, Table A2, p. 3-5 for 2008-2035 energy consumption and Table A18, p. 36 for 2008-2035 emissions; EIA, International Energy Outlook 2010, July 2010, Table A10, p. 155 for 2004-2030 global emissions; and EIA, Country Energy Profiles for global emissions (1980-2007), available at <a href="http://www.eia.gov/country/index.cfm">http://www.eia.gov/country/index.cfm</a> , accessed 2/3/2011.